(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 6 January 2005 (06.01,2005)

PCT

(10) International Publication Number $WO\ 2005/000331\ A3$

(51) International Patent Classification7: 31/198

A61K 35/78,

(21) International Application Number:

PCT/US2004/017946

(22) International Filing Date:

4 June 2004 (04.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/476,009

4 June 2003 (04.06.2003) US

(71) Applicant (for all designated States except US): MU-COSAL THERAPEUTICS, INC. [US/US]; 277 Linden Street, Suite 201, Wellesley, MA 02482 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): FEY, Edward [US/US]; 66 Commonwealth Avenue, Boston, MA 02116 (US). JAY, Gregory [US/US]; 3 Crossbow Road, Norfolk, MA 02056 (US).
- (74) Agent: CLARK, Paul, T.; Clark & Elbing LLP, 101 Federal Street, Boston, MA 02110-1817 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

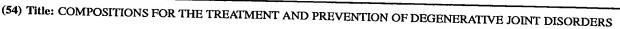
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report

(88) Date of publication of the international search report: 26 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: The present invention features methods and compositions for the treatment, reduction, and prevention of degenerative joint disorders by administering to a mammal a joint enhancing composition. According to this invention, the composition increases the level of expression and secretion of endogenous lubricin such that the joints in the mammal being treated are lubricated. This composition can be administered alone or in combination with one or more therapeutic agents.